

In the Claims:

1-21. (cancelled)

22. (new) A location management apparatus which maintains locations of mobile stations within a mobile communication network, comprising:

a location information storage in which locations of the mobile stations are identifiable with reference to communication areas where the mobile stations are situated, and transportations on which the mobile stations are being carried; and

a transportation location finder that identifies a communication area where a transportation is situated,

wherein the location information storage is accessible to find a communication area where a particular mobile station is situated or a communication area, using the transportation location finder, where a transportation is situated on which the particular mobile station is being carried.

23. (new) A location management apparatus according to claim 22, wherein the communication area is a paging area.

24. (new) A location management apparatus according to claim 22, wherein a location of a mobile station stored in the location information storage is updated by a registration request from the mobile station which identifies either a communication area which the mobile station enters or a transportation on which the mobile station moves.

25. (new) A location management apparatus according to claim 22, wherein the transportation location finder determines the communication area where the transportation is situated, using a geographical location of the transportation.

26. (new) A location management apparatus according to claim 22, the transportation location finder is activated to find the communication area where the transportation is situated when a communication has to reach a mobile station being carried on the transportation.

27. (new) A location management apparatus according to claim 22, wherein the location information storage and the transportation location finder are located on different servers functionally connected to each other.

28. (new) A location management apparatus according to claim 22, wherein the location information storage comprises a first table in which the locations of the mobile stations are identified with reference to the communication areas where mobile stations are situated, and the transportations on which mobile stations are being carried, and a second table in which locations of the transportations are identified with reference to communication areas where the transportations are situated.

29. (new) A location management apparatus according to claim 28, wherein the second table is updated by an update request from the transportation location finder receiving geographical locations of the transportations.

30. (new) A location management apparatus according to claim 22, further comprising a receiver that receives travel information from a mobile station which transmits the travel information in response to a paging signal initiated by the location management apparatus.

31. (new) A location management apparatus according to claim 30, wherein the travel information comprises a geographical location of the mobile terminal, a traveling direction thereof and a traveling speed thereof.

32. (new) A location management apparatus according to claim 25, further comprising a transportation travel information storage accessible by the transportation location finder which maintains geographical locations of the transportations.

33. (new) A location management apparatus according to claim 32, wherein the transportation travel information storage stores travel statuses of the transportations, wherein the travel status comprises a delay in schedule.

34. (new) A location management apparatus according to claim 33, wherein the travel statuses of the transportations are receivable by the location management apparatus.

35. (new) A location management apparatus according to claim 32, further comprising a schedule information storage that stores travel schedules of the transportations, wherein based on information stored in the transportation travel information storage and the schedule information storage, the location management apparatus determines a future location of a transportation.

36. (new) A location management apparatus according to claim 35, wherein the travel schedules of the transportations are receivable by the location management apparatus.

37. (new) A location management apparatus according to claim 22, wherein a location of a mobile station stored in the location information storage is updated by a registration request from a transportation which identifies the transportation and the mobile station.

38. (new) A mobile station comprising:

- a locator that determines a communication area where the mobile station is situated;
- a transportation identifier that identifies a transportation on which the mobile station is being carried;
- a request generator that generates, using the locator and the transportation identifier, a location registration request identifying the communication area or the transportation; and
- a request control that sends the location registration request identifying the communication area when the mobile terminal enters a new communication area, whereas sending the location registration request identifying the transportation when the mobile station moves on the transportation and suspending sending the registration request identifying the communication area until the mobile terminal moves off from the transportation.

39. (new) A mobile station according to claim 38, further comprising a positioning device that determines a travel status of the mobile station which comprises a geographical location of the mobile station.

40. (new) A mobile station according to claim 39, wherein the travel status further comprises a traveling speed of the mobile station and a traveling direction thereof.

41. (new) A mobile station according to claim 39, further comprising a transmitter that transmits the travel status in response to a paging signal.